

BOBBY JINDAL
GOVERNOR



HAROLD LEGGETT, PH.D.
SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

JUL 01 2009

CERTIFIED MAIL 7008 3230 0001 2852 6384 -RETURN RECEIPT REQUEST

File No.: LA0002879
AI No.: 1906
Activity No.: PER20080001

Mr. Brent Croom, Manager Waste and Water Quality
Cleco Evangeline, LLC
Evangeline Power Station
Post Office Box 5000
Pineville, LA 71361-5000

RE: Draft Major Modification of Louisiana Pollutant Discharge Elimination System (LPDES) permit LA0002879 (effective January 1, 2007) issued to Cleco Evangeline, LLC, Evangeline Power Station, located at 2180 St. Landry Highway, in St. Landry, Evangeline Parish.

Dear Mr. Croom:

This Office received a permit modification application on December 5, 2008, and an additional request for permit modification on March 2, 2009, requesting that LPDES permit LA0002879 be modified to reflect the changes indicated below. After reviewing these requests, this Office is proposing to grant the following modifications:

1. The Total Copper effluent limitation has been revised for Outfalls 002, 003, and 007 in accordance with revisions to the *Bayou Cocodrie TMDL for Dissolved Copper* which were finalized on August 12, 2008. Please see the LPDES Fact Sheet and Rationale, Sections 5.A and 5.B for more information. The draft permit modifications are found in Part I, Modified Pages 5, 6, 7, 9 & 15 of 15, and Part II, Paragraph V, Modified Page 19 of 19.
2. The monthly average Total Dissolved Solids (TDS) effluent limitation for Outfalls 002 and 003 has been increased from 100 mg/L to 210 mg/L in accordance with the *Bayou Cocodrie TMDL for Total Dissolved Solids (TDS)*. Please see the LPDES Fact Sheet and Rationale, Section 5.C, for more information. The draft permit modifications are found in Part I, Modified Pages 5 & 9 of 15.
3. The monthly average Total Dissolved Solids (TDS) effluent limitation for Outfall 007 has been increased from 100 mg/L to 3000 mg/L in accordance with the *Bayou Cocodrie TMDL for Total Dissolved Solids (TDS)*. Please see the LPDES Fact Sheet and Rationale, Section 5.D, for more information. The draft permit modifications are found in Part I, Modified Page 15 of 15.
4. The "daily average temperature" definition contained in Part II, Paragraph Q has been revised. The draft permit modifications are found in Part II, Paragraph Q, Modified Page 8 of 19.

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5. Daily maximum temperature will be measured by flow weighted averaging. The definition of daily maximum temperature has been included in Part II, Paragraph Q. The draft permit modifications are found in Part I, Modified Pages 5, 6, 7, of 15 (Outfall 002) and Page 9 of 15 (Outfall 003) and in Part II, Paragraph Q, Modified Page 8 of 19.

Attached are the draft revisions to Part I (Modified Pages 5, 6, 7, 9 & 15 of 15), Part II, Paragraphs Q and V of the permit (modified pages 8 and 19 of 19) and the modified Title Page for the requested modification. Please note that this is a DRAFT MODIFICATION only. Changes to the permit effluent limitations and monitoring requirements are effective only upon the receipt of an approved modification from this Office. All other conditions of the permit LA0002879 shall continue unchanged and remain valid until the expiration date of the permit. In accordance with LAC 33:IX.3105.B.2, only those permit limitations and conditions pertaining to the draft modification(s) are open for public comment.

This Office will publish a public notice one time in the local newspaper of general circulation, and in the Department of Environmental Quality Public Notice Mailing List. A copy of the public notice containing the specific requirements for commenting to this draft permit action will be sent under separate cover at the time the public notice is arranged. In accordance with LAC 33:IX.6521.A, the applicant shall receive and is responsible for paying the invoice(s) from the newspaper(s). LAC 33:IX.6521 states, "...The costs of publication shall be borne by the applicant."

The invoice, fee rating worksheet, and a copy of the fee regulations will be sent under a separate cover letter as applicable. A copy of the entire Louisiana Water Quality Regulations may be obtained from the LDEQ Office of Environmental Assessment, Post Office Box 4314, Baton Rouge, Louisiana 70821-4314, (225) 219-3236.

Pursuant to LAC 33:IX.1309.I, LAC 33:IX.6509.A.1 and LAC 33:I.1701, you must pay any outstanding fees to the Department. Therefore, you are encouraged to verify your facility's fee status by contacting LDEQ's Office of Management and Finance, Financial Services Division (225) 219-3863 or accessing LDEQ's web site at www.deq.louisiana.gov. Failure to pay in the manner and time prescribed could result in applicable enforcement actions as prescribed in the Environmental Quality Act, including, but not limited to, revocation or suspension of the applicable permit and/or assessment of a civil penalty against you.

For sanitary treatment plants, the plans and specifications must be approved by the Department of Health and Hospitals, Office of Public Health, P.O. Box 4489, Baton Rouge, Louisiana 70821-4489, (225) 342-7395.

Should you have any questions concerning any part of the DRAFT PERMIT, public notice requirements, or fee, please contact Lisa Kemp, Office of Environmental Services, at the address on the preceding page, telephone (225) 219-3105. To ensure that all correspondence regarding this facility is properly filed, please reference your Agency Interest number 1906 and LPDES permit number LA0002879 on all future correspondence to this Department, including Discharge Monitoring Reports.

Sincerely,



Jesse Chang, Environmental Scientist Manager
Industrial Water Permits Section

lwk

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Attachment(s) including draft permit modifications and fact sheet:

c: Lisa Kemp
Water Permits Division

IO-W

cc: Scenic River Coordinator
Department of Wildlife and Fisheries

Ms. Gayle Denino
Office of Management & Finance

Permit Compliance Unit
Office of Environmental Compliance

Cheryl LeJeune
Yvonne Baker
Water Permits Division

Public Participation Group (for public notice)
Office of Environmental Assistance

Michael H. Schurtz
mikeschurtz@providenceeng.com

DRAFT



PERMIT No.: LA0002879
AI No.: 1906

OFFICE OF ENVIRONMENTAL SERVICES
Water Discharge Permit

Pursuant to the Clean Water Act, as amended (33 U.S.C. 1251 et seq.), and the Louisiana Environmental Quality Act, as amended (La. R. S. 30:2001 et seq.), rules and regulations effective or promulgated under the authority of said Acts, and in reliance on statements and representations heretofore made in the application, a Louisiana Pollutant Discharge Elimination System permit is issued authorizing

Cleco Evangeline, LLC
Evangeline Power Station
Post Office Box 5000
Pineville, LA 71361-5000

Type Facility: steam electric generating facility

Location: 2180 St. Landry Highway, St. Landry
Evangeline Parish

Receiving Waters: Bayou Cocodrie (Subsegment 060201)

to discharge in accordance with effluent limitations, monitoring requirements, narrative requirements, and other conditions set forth in Parts I, II, and III attached hereto.

This permit and the authorization to discharge were effective on January 1, 2007, and shall expire five (5) years from the original effective date of the permit.

This permit was previously modified on January 7, 2008 to incorporate the remand of major portions of the 316 (b) Rule.

This modification shall become effective on _____

Issued on _____

DRAFT

Cheryl Sonnier Nolan
Assistant Secretary

Part I

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

During the period beginning upon effective date of the modification and lasting through the expiration date the permittee is authorized to discharge from:

Outfall 002 (FINAL EFFLUENT LIMITATIONS), the continuous discharge of reservoir overflow consisting of previously monitored once through non-contact cooling water from Outfall 302, previously monitored low volume wastewaters and maintenance wastewaters from Outfalls 102, 202, 502 and 602, previously monitored hydrostatic test water from Outfall 402, clarifier sedimentation pond overflow, and non-process area stormwater runoff.

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations					Monitoring Requirements	
	Other Units					Measurement Frequency (*1)	Sample Type
	(lbs/day, UNLESS STATED) (mg/L, UNLESS STATED)						
	STORET Code	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
Flow-MGD	50050	Report	Report	---	---	1/day	Measure (*2)
Temperature	00011	---	---	95° F (*3)	97° F (*3)	Continuous	Recorder
Total Copper	01042	(*4)	---	---	---	1/quarter	24-hr. Composite
Total Dissolved Solids	70295	---	---	210	---	1/month	Grab
pH Min./Max. Values (Standard Units)	00400	---	---	6.0 (*5) (Min)	9.0 (*5) (Max)	1/week	Grab

WHOLE EFFLUENT (CHRONIC)

(Percent %, UNLESS STATED)

<u>TOXICITY TESTING</u>	STORET Code			Monthly Avg Minimum	7-Day Minimum	Measurement Frequency	Sample Type (*6)
NOEC, Pass/Fail [0/1], Lethality, Static Renewal, 7-Day Chronic, <u>Pimephales promelas</u>	TLP6C	---	---	Report	Report	1/quarter (*7)	24-hr. Composite
NOEC, Value [%], Lethality, Static Renewal, 7-Day Chronic, <u>Pimephales promelas</u>	TOP6C	---	---	Report	Report	1/quarter (*7)	24-hr. Composite
NOEC, Value [%], Growth, Static Renewal, 7-Day Chronic, <u>Pimephales promelas</u>	TPP6C	---	---	Report	Report	1/quarter (*7)	24-hr. Composite
NOEC, Pass/Fail [0/1], Growth, Static Renewal, 7-Day Chronic, <u>Pimephales promelas</u>	TGP6C	---	---	Report	Report	1/quarter (*7)	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

NOEC, Value [%], Coefficient of Variation, Static Renewal, 7-Day Chronic, <u>Pimephales promelas</u>	TQP6C	---	---	Report	Report	1/quarter(*7)	24-hr. Composite
NOEC, Pass/Fail [0/1], Lethality, Static Renewal, 7-Day Chronic, <u>Ceriodaphnia dubia</u>	TLP3B	---	---	Report	Report	1/quarter (*8)	24-hr. Composite
NOEC, Value [%], Lethality, Static Renewal, 7-Day Chronic <u>Ceriodaphnia dubia</u>	TOP3B	---	---	Report	Report	1/quarter (*8)	24-hr. Composite
NOEC, Value [%], Reproduction, Static Renewal, 7-Day Chronic, <u>Ceriodaphnia dubia</u>	TPP3B	---	---	Report	Report	1/quarter (*8)	24-hr. Composite
NOEC, Pass/Fail [0/1], Reproduction, Static Renewal, 7-Day Chronic, <u>Ceriodaphnia dubia</u>	TGP3B	---	---	Report	Report	1/quarter (*8)	24-hr. Composite
NOEC, Value [%], Coefficient of Variation, Static Renewal, 7-Day Chronic, <u>Ceriodaphnia dubia</u>	TQP3B	---	---	Report	Report	1/quarter (*8)	24-hr. Composite

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations:

Outfall 002, at the point of discharge from Mountain Bayou Lake prior to discharge into Bayou Cocodrie.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

FOOTNOTES:

- (*1) When discharging.
- (*2) Flow shall be measured by the use of pump curves.
- (*3) See Part II, Paragraph Q.
- (*4) The permittee shall conduct Total Copper monitoring at Outfalls 002, 003 and 007. Total Copper is limited based on the total combined flow in MGD from Outfalls 002, 003, and 007. The arithmetic sum of the daily pollutant mass discharges from these outfalls during the same 24-hour sampling period shall not exceed the Monthly Average permissible loading for Cleco determined from the effluent-flow-based equation. See Part II, Paragraph V. The combined value shall be reported on the DMR at Outfall 002.
- (*5) The permittee shall report on the discharge monitoring reports both the minimum and maximum instantaneous pH values measured.
- (*6) The permittee shall perform biomonitoring on the flow-weighted composite of Outfalls 002 and 003.
- (*7) If lethal effects are not exhibited at the critical dilution after the first year of biomonitoring, the monitoring frequency shall be reduced to once per year. See Part II, Paragraph U.5.
- (*8) If lethal effects are not exhibited at the critical dilution after the first year of biomonitoring, the monitoring frequency shall be reduced to once per six months. See Part II, Paragraph U.5.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

During the period beginning upon effective date of the modification and lasting through the expiration date the permittee is authorized to discharge from:

Outfall 003 (FINAL EFFLUENT LIMITATIONS), the continuous discharge of reservoir overflow consisting of previously monitored once through non-contact cooling water from Outfall 302, previously monitored low volume wastewaters from Outfalls 102, 202, 502 and 602, previously monitored hydrostatic test water from Outfall 402, clarifier sedimentation pond overflow, and non-process area stormwater runoff.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>		<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>	
		Other Units					
		(lbs/day, UNLESS STATED)		(mg/L, UNLESS STATED)			
STORET	Monthly	Daily	Monthly	Daily	Measurement	Sample	
Code	Average	Maximum	Average	Maximum	Frequency (*1)	Type	
Flow-MGD	50050	Report	Report	---	---	1/day	Measure (*2)
Temperature	00011	---	---	95° F (*3)	97° F (*3)	Continuous	Recorder
Total Copper	01042	(*4)	---	---	---	1/quarter	24-hr. Composite
Total Dissolved Solids	70295	---	---	210	---	1/month	Grab
pH Min./Max. Values	00400	---	---	6.0 (*5)	9.0 (*5)	1/week	Grab
(Standard Units)				(Min)	(Max)		

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations:

Outfall 003, at the point of discharge from Mountain Bayou Lake prior to discharge into Bayou Cocodrie.

FOOTNOTES:

- (*1) When discharging.
- (*2) Flow shall be measured by the use of pump curves.
- (*3) See Part II, Paragraph Q.
- (*4) See Total Copper limitation listed in Part I, Modified Page 7 of 15, Footnote (*4). The combined value shall be reported on the DMR at Outfall 002.
- (*5) The permittee shall report on the discharge monitoring reports both the minimum and maximum instantaneous pH values measured.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

During the period beginning upon effective date of the modification and lasting through the expiration date the permittee is authorized to discharge from:

Outfall 007 (FINAL EFFLUENT LIMITATIONS), the intermittent discharge of treated sanitary wastewater.

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	STORET Code	Discharge Limitations				Monitoring Requirements	
		Other Units				Measurement Frequency>(*1)	Sample Type
		(lbs/day, UNLESS STATED)		(mg/L, UNLESS STATED)			
		Monthly Average	Weekly Average	Monthly Average	Weekly Average		
Flow-MGD	50050	Report	Report	---	---	1/3 months	Estimate
BOD ₅	00310	---	---	---	45	1/3 months	Grab
TSS	00530	---	---	---	45	1/3 months	Grab
Fecal Coliform colonies/100 ml (*2)	74055	---	---	---	400	1/3 months	Grab
Total Copper	01042	(*3)	---	---	---	1/quarter	Grab
Total Dissolved Solids	70295	---	---	3000	---	1/month	Grab
pH Min./Max. Values (Standard Units)	00400	---	---	6.0 (*4) (Min)	9.0 (*4) (Max)	1/3 months	Grab

There shall be no discharge of floating solids or visible foam in other than trace amounts, nor of free oil or other oil materials, nor of toxic materials in quantities such as to cause acute toxicity to aquatic organisms. Furthermore, there shall be no visible sheen or stains attributable to this discharge.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outfall 007, at the point of discharge from the treatment facility prior to discharge into Bayou Cocodrie.

FOOTNOTES:

- (*1) When discharging.
- (*2) Future water quality studies may indicate potential toxicity from the presence of residual chlorine in the treatment facility's effluent. Therefore, the permittee is hereby advised that a future Total Residual Chlorine Limit may be required if chlorine is used as a method of disinfection. In many cases, this becomes a NO MEASURABLE Total Residual Chlorine Limit. If such a limit were imposed, the permittee would be required to provide for dechlorination of the effluent prior to discharge.
- (*3) See Total Copper limitation listed in Part I, Modified Page 7 of 15, Footnote (*4). The combined value shall be reported on the DMR at Outfall 002.
- (*4) The permittee shall report on the Discharge Monitoring Reports both the minimum and maximum instantaneous pH values measured.

Part II

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OTHER REQUIREMENTS (continued)

N. PROHIBITION OF CHEMICAL AND NONCHEMICAL METAL CLEANING WASTE DISCHARGES

The permittee is prohibited from discharging metal cleaning wastewater or chemical metal cleaning wastewater to the waters of the state. These wastewaters must be transported offsite for proper disposal.

O. LOW VOLUME WASTE SOURCES

The term "low volume waste sources" means, taken collectively as if from one source, wastewater from all sources except those for which specific limitations are otherwise established. Low volume waste sources include, but are not limited to: wastewaters from wet scrubber air pollution control systems, ion exchange

water treatment systems, water treatment evaporator blowdown, laboratory and sampling streams, boiler blowdown, floor drains, cooling tower basin cleaning wastes, and recirculating house service water systems. Sanitary and air conditioning wastewaters are not included.

P. TOTAL RESIDUAL CHLORINE

The term "total residual chlorine" (or total residual oxidants for intake water with bromides) means the value obtained using the amperometric method for total residual chlorine described in 40 CFR Part 136. Total residual chlorine may not be discharged from any single generating unit for more than two hours per day.

Q. TEMPERATURE

Daily temperature discharge is defined as the flow-weighted average (FWAT) and, on a daily basis, shall be monitored and recorded in accordance with Part I of this permit. FWAT shall be calculated at equal time intervals not greater than two hours. The method of calculating FWAT is as follows:

$$\text{FWAT} = \frac{\text{SUMMATION (INSTANTANEOUS FLOW X INSTANTANEOUS TEMPERATURE)}}{\text{SUMMATION (INSTANTANEOUS FLOW)}}$$

"Daily average temperature" (also known as monthly average) shall be the arithmetic average of all FWATs calculated during the calendar month.

"Daily maximum temperature" (also known as the daily maximum value) shall be the highest FWAT calculated during the calendar month.

R. COMPOSITE SAMPLING

Unless otherwise specified in this permit, the term "24-hour composite sample" means a sample consisting of a minimum of four (4) aliquots of effluent collected at regular intervals over a normal 24-hour operating day and combined in proportion to flow or a sample continuously collected in proportion to flow over a normal 24-hour operating period.

S. PERMIT REOPENER CLAUSE

In accordance with LAC 33:IX.2903, this permit may be modified, or alternatively, revoked and reissued, to comply with any applicable effluent standard or limitations issued or approved under sections 301(b)(2)(c) and (D); 304(b)(2); and 307(a)(2) of the Clean Water Act, if the effluent standard or limitations so issued or approved:

Part II

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OTHER REQUIREMENTS (continued)

testing alone to ensure success in the TRE, and that additional screening tests be performed to capture toxic samples for identification of toxicants. Failure to identify the specific chemical compound causing toxicity test failure will normally result in a permit limit for whole effluent toxicity limits per federal regulations at 40 CFR 122.44(d)(1)(v).

- V. The monthly average effluent limitation for Total Copper applicable to Outfalls 002, 003, and 007 shall be in accordance with the effluent discharge flow-based equation for Total Copper which was developed in the revisions to the *Bayou Cocodrie TMDL for Dissolved Copper*. The permittee shall conduct Total Copper monitoring at Outfalls 002, 003, and 007. The **arithmetic sum of the daily pollutant mass discharges from these outfalls during the same 24-hour sampling period** shall not exceed the Monthly Average permissible loading for Cleco determined from the following equation:

$$\text{Cleco Effluent Load in pounds/day} = 0.0421 \times (\text{Cleco flow in MGD}^*) + 1.3574$$

* Cleco flow in MGD is the total combined flow rate from Outfalls 002, 003, and 007.